SERVER OPTIONS GUIDE,
SOFTWARE AND SERVICES

Lenovo ThinkServer Options.

EASY TO USE. EASY TO INSTALL. EASY TO MAINTAIN.

lenovo®
CREATORS OF THINKPAD

ThinkServer®

Version History

Date	Version	Version Description – Major changes listed
July 2010	5.0 Current	• New ThinkServer® systems added: TD230, RD230, RD240 • New Options technology: RAID, PSU, Remote Management
March 2010	4.0	• New ThinkServer systems added: TS200v • New Options technology: RDX Backup, Networking Card, TS200v options.
November 2009	3.0	• ThinkServer systems added: TS200, RS210. • Options added: DDR3 UDIMM. ThinkServer Options covering Networking, RAID, Internal Tape and System Options added.
July 2009	2.0	• ThinkServer systems added: TD200, RD210 and RD220. • Options added: DDR3 Memory, Intel® Xeon® E5500 Series processors, 2.5" Slim Form Factor Hard Disk Drives.
February 2009	1.1	• OCM and content updated for ThinkServer Ready Option changes.
October 2008	1.0	• ThinkServer systems included: TS100, TD100, TD100x, RS110 and RD120. • Options included: DDR2 Memory, SAS/SATA HDDs, Intel® Xeon® 5400 Series processors.

ThinkServer

THE NEW THINKSERVER TD230

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ThinkServer

Why Lenovo?

MANAGEABILITY BUILT-IN TO EVERY THINKSERVER

- Easy to Use - Built into every server, intuitive, and no installation required
- Increases Server Uptime by giving you the ability to manage your server like a Pro Anywhere, Anytime
- Improve Productivity by being able to conduct maintenance and deploy patch updates when systems are off
- Remotely power on/off your server to reduce energy costs

HIGHLY SCALABLE AND FLEXIBLE

- 8 TB of Storage (RD240)
- Choice of Direct-Connect or Hot-Swap Hard Disk Drives
- SATA HDDs or Performance SAS HDDs
- Leading virtualization solutions from Microsoft®, Novell®, VMWare® and Red Hat®

GREEN ENERGY

- Select ThinkServer systems are the greenest yet with full ENERGY STAR™ for servers 1.0 qualified

EASE OF USE

- EasyStartup with built-in RAID integration and an expanded list of supported operating systems
- Buying Guide and Model Converter tools make it easy to identify the right solution for your needs and upgrade your existing solutions to Lenovo ThinkServers systems
- Online configurator—creates and compares configurations optimized for value, flexibility or expandability

FIRST-CLASS SERVICE AND SUPPORT

- All ThinkServer systems come with either a 1-year or 3-year standard warranty (depending on the model)

Why ThinkServer Options?

COMPLETING YOUR SOLUTION

When configuring your ThinkServer solution, it is very important to understand your system's capabilities to fully take advantage of the performance and throughput of ThinkServer solutions.

FUTURE-PROOF

AHEAD OF TECHNOLOGY TRANSITIONS

- ThinkServer Hard Disk Drives—capable of 6Gb/s interface performance
- ThinkServer Memory—feature Advanced ECC, Memory Mirroring
- Intel® Xeon® processors with Intel® Hyper-Threading, Intelligent Power and Turbo Boost

SMART INVESTMENTS

INCREASING VALUE AND PERFORMANCE

- ThinkServer RDX backup Solutions leverage a server centric, data deduplication software that reduces the amount of data required for backup by up to 20x — reducing costs and increasing performance

TESTED AND PROVEN

MISSION CRITICAL RELIABILITY FOR SMB

- ThinkServer Options are tested and qualified on ThinkServer systems to meet the stringest quality standards—ensuring the solution has the enterprise level of availability for your small or medium-sized business
- There is a 1-year or 3-year warranty on all ThinkServer Options (depending on the Option). If an Option has a 1-year warranty, and is installed in a system with 3-year warranty, the Option automatically takes the 3-year warranty of the system—industry-leading serviceability

Software Solutions

MICROSOFT® WINDOWS SERVER® OPERATING SYSTEMS

Lenovo offers Microsoft® Windows Server® Operating Systems for Lenovo ThinkServer products as Reseller Option Kits (ROK), available for Business Partners and as selected custom model preloads. Microsoft® Windows Server® Operating Systems for Lenovo ThinkServer systems are flexible offerings that are easy to install and are competitively priced. All versions include a base number of user CALs (Client Access Licenses).

WINDOWS® SMALL BUSINESS SERVER® 2008 STANDARD AND PREMIUM EDITIONS (32-bit and 64-bit)

Windows® Small Business Server® 2008, designed for small businesses, is an all-in-one server solution to keep your data more secure and your company more productive. Windows® SBS Standard Edition includes Windows Server® 2008 Standard, Windows® SharePoint Services v3 and Exchange 2007 Forefront Security for Exchange—all at one affordable price. Windows® SBS Premium Edition includes all of the features of Windows® SBS Standard plus Windows® SQL Server 2008. Both editions include 5 CALs.

WINDOWS SERVER® 2008 R2

Windows Server® 2008 R2 builds on the award-winning foundation of Windows Server® 2008, expanding existing technology and adding new features to enable IT professionals to increase the reliability and flexibility of their server infrastructures.

WINDOWS SERVER® 2008 USER CLIENT ACCESS LICENSE (CAL) PACKS

Windows Server® 2008 User Client Access License (CAL) Packs support Windows Server® 2008 products and authorize named users to access the server through the Windows Server® 2008 operating system.

ThinkServer™

TD230

RD230

TS200V

RD240

Cutting-edge Processor Options

Processors based on Intel®'s technologies feature Intel®'s latest innovation in microprocessor architecture—the Intel® Nehalem architecture. This architecture features a design that increases processor performance while reducing power consumption—providing higher productivity at a lower cost of ownership.

INTEL® HT TECHNOLOGY AND INTEL® TURBO BOOST TECHNOLOGY

Intel® HT Technology and Intel® Turbo Boost Technology are combined in processors based on Intel® Microarchitecture, code named Nehalem. Intel® Hyper-Threading Technology uses thread-level parallelism on each processor resulting in higher processing throughput.

- Increase productivity by running applications simultaneously
- Increase scalability by dynamically managing workload

INTEL® INTELLIGENT POWER TECHNOLOGY

Within a single server, Intel® Intelligent Power Technology minimizes power consumption when server components are not fully utilized. Integrated Power Gates allow individual idling cores to be reduced to near-zero power, independent of other operating cores.

- Reduces server idle power consumption by up to 50% versus the previous generation of 2 socket server processors
- Automated Low-Power States automatically put both processor and memory into the lowest available power states that meet system requirements

ThinkServer Memory

ThinkServer DDR3 memory is the next generation of SDRAM memory that enables high I/O data transfer rates through increased peak bandwidth (1333MHz and 1066MHz) and reduces power consumption over DDR2 technology. Faster data transfer rates mean higher performance and with DDR3 memory this is achieved without straining the system's power needs.

THINKSERVER MEMORY FEATURE ADVANCED ECC TECHNOLOGY

- Advanced ECC works similar to RAID for disk subsystems. If a memory failure occurs, the data is immediately recovered by recalculating the data from the checksum information
- This allows the system to mask not only the single bit errors (standard ECC) but also 2, 3 and 4-bit errors (Advanced ECC has 99.94% reliability)

INTEGRATED TECHNOLOGY, SEAMLESS PERFORMANCE

Since Intel®'s latest server processors are based off of Nehalem technology, there are some unique benefits provided for DDR3 to take advantage of:

- Integrated Memory controller – Increases the memory bandwidth without compromising performance
- Intel® QuickPath Interconnect – Point-to-point high-speed links between the processor and distributed shared memory gives parallel processing a new level of performance

ThinkServer Hard Disk Drives

PERFORMANCE STORAGE AND SCALABLE CAPACITY

ThinkServer Hard Disk Drive options cover the entire spectrum of server storage needs with Serial ATA (SATA) and Serial Attached SCSI (SAS) offerings. The portfolio includes both 2.5" and 3.5" form factor drives in 2 flavors: Hot-Swap and Direct-Connect.

SAS is your solution if you are looking for solid performance per dollar and SATA is your solution if you are looking for cost-efficient capacity per dollar.

SELECTING THE RIGHT SOLUTION – SAS OR SATA					
Technology	Form Factor	Speed	Usage Scenario	Usage Intensity	Notable Specifications
SAS	2.5" 3.5"	15K rpm 10K rpm	Performance-intensive, high availability, random reads	24/7, many users accessing information or running mission critical applications	3.5ms to 3.9ms typical seek times
SATA	2.5" 3.5"	7.2K rpm 10K rpm	Capacity-intensive, low-availability, sequential reads	8x5, system storage applications such as storing content or archiving data	9.5ms typical seek time

Lenovo recommends high-performance SAS drives for virtualization environments. We provide a full array of SAS drives in both 2.5" and 3.5" offerings:

- 10,000 and 15,000 rpm 2.5" SAS hard disk drives capable of 6.0Gb/s performance
- 10,000 and 15,000 rpm 3.5" SAS hard disk drives at 6.0Gb/s performance

Lenovo RDX Backup

RELIABLE, EASY AND AFFORDABLE BACKUP

What's the most important investment for your business? Protecting and managing your customer's data securely, easily and efficiently.

For small and medium sized businesses, now there is a smarter technology that makes data protection easy to manage, highly scalable and resource-efficient. Introducing the Lenovo RDX Backup portfolio offering internal drive bundles and removable data cartridges in 160 GB, 320 GB and 500 GB capacities. Featured in each internal drive bundle is the latest data deduplication software backing up your data efficiently and easily.

What's data deduplication?

- Data Deduplication is a compression technique where redundant data is eliminated
- In the deduplication process, only data that changed since the last backup is merged into the original copy — reducing the amount of data transferred by up to 20x

FEATURES	BENEFITS
Data Deduplication Software	• 20x data reduction = lower cost per GB • Faster data backup = only back up data that changed
More Reliable Disk-to-Disk Data Protection	• Avoid or replace inefficient low-end tape options • Rugged and Removable Media allows for proper data protection and offsite archiving
Data Recovery	• Flexible data recovery with support for Microsoft® Exchange and SQL DB • Fast disk-to-disk recovery • Point-in-Time recovery
Simple Installation and User Interface	• Installs in just a few minutes • Minimal IT resources needed

Protect and Grow Your Investment.

SYSTEM AVAILABILITY WHILE MEETING PERFORMANCE AND CAPACITY NEEDS.

ThinkServer

BUILDING A STRONG FOUNDATION

SINGLE PROCESSOR SYSTEMS

DUAL PROCESSOR SYSTEMS

THINKPLUS PRODUCTIVITY
Essential Support

INCREASING STORAGE AND PROTECTION

THINKSERVER MEMORY
Boost Productivity

THINKSERVER SATA HARD DISK DRIVES
Reliable Capacity

THINKSERVER PROCESSORS
Performance and Computing Power

THINKSERVER SAS HARD DISK DRIVES
Performance Drives

PCI-E DUAL PORT GIGABIT ETHERNET
Networking Scalability

ADVANCE RAID OPTIONS
Secure and Reliable

OPTICAL DRIVES
Reliable and Convenient

INTEGRATED MANAGEMENT MODULE
Integrated Management

GROWING THE BUSINESS

REDUNDANT POWER SUPPLIES
Essential Power Protection

LENOVO INTERNAL USB RDX
Flexible and Efficient Solution

SATA RAID 5 UPGRADE
Scalable Reliability

ONLINE BACKUP AND HDD RETENTION SERVICE
Protect Your Data

LTO SAS TAPE DRIVES
Performance Storage Solution

THINKSERVER HARD DISK DRIVES
SAS and SATA - Flexibility

FIBER-CHANNEL PCIe HBAs
Leading SAN Performance

THINKPLUS PRIORITY 4
Stay up and Running

ThinkServer

ThinkServer Tower Servers

MEETING YOUR NEEDS

SEAMLESS, ENTRY-LEVEL	**WORKHORSE, PRODUCTIVITY**	**FULLY LOADED, PERFORMANCE**
• E-mail • File and print • 0 to 25 users • Branch locations	• Database Server • Application Server • 25 to 50 users • Remote locations	• Database Server • Application Server • Expandable • High performance
TS200 **Performance:** ECC, DDR3 Memory (2GB) **Reliable:** Simple-Swap 3.5" SATA II HDD (3 HDDs) **Networking:** NetXtreme Ethernet PCIe	**TD230** **Advanced:** ECC DDR3 Memory (32GB Max) **Performance:** Hot-Swap 3.5" SAS/SATA HDD (4 HDDs) **Computing:** Intel® Xeon® E5600 Westmere-EP (2 CPUs) **Management:** Remote Management Key (RMM3)	**TD200x** **Advanced:** ECC DDR3 Memory (24GB) **Performance:** Hot-Swap 2.5" SAS/SATA HDD (6 HDDs) **Computing:** Intel® Xeon® E5500 Series (2 CPUs) **Management:** Remote Management (Virtual Media Key)
TS200v **Performance:** ECC, DDR3 Memory (2GB) **Reliable:** Enterprise Class 3.5" SATA II HDD (2 HDDs) **Backup/Archiving:** RDX Internal USB Bundle **Management:** "Always-on" Remote Management	**TD200** **Advanced:** ECC DDR3 Memory (8GB) **Performance:** Hot-Swap 3.5" SAS/SATA HDD (5 HDDs) **Computing:** Intel® Xeon® E5500 Series (2 CPUs) **Management:** Remote Management (Virtual Media Key)	

ThinkServer Rack Servers

MEETING YOUR NEEDS

COMPACT, ENTRY-LEVEL	**SCALABLE, EXPANDABLE**	**EFFICIENT PERFORMANCE**
• Single purpose applications • E-mail/File/Print/Web server • Ideal when floor space is limited • Main office	• Mission Critical • Virtualization • Storage performance per volume	• Multi-purpose applications • Rock-solid data integrity (RAID) • Storage per performance • Remotely Managed
RD240 **Advanced:** ECC DDR3 Memory (64GB Max) **Performance:** Hot-Swap 3.5" SAS/SATA HDD (8 HDDs) **Computing:** Intel® Xeon® E5600 Westmere-EP (2 CPUs) **Protection:** ThinkServer 8708ELP Advanced RAID	**RD230** **Advanced:** ECC DDR3 Memory (64GB Max) **Performance:** Hot-Swap 3.5" SAS/SATA HDD (4 HDDs) **Computing:** Intel® Xeon® E5600 Westmere-EP (2 CPUs) **Protection:** ThinkServer 8708ELP Advanced RAID	**RS210** **Advanced:** ECC DDR3 Memory (8GB) **Performance:** 10K/15K rpm 2.5" SAS (5 HDDs) **Management:** Remote Management (Virtual Media Key)
RD220 **Advanced:** ECC DDR3 Memory (8GB) **Performance:** 10K/15K rpm 2.5" SAS/SATA (5 HDDs) **Computing:** Intel® Xeon® E5500 Series (2 CPUs) **Management:** Remote Management (Virtual Media Key)	**RD210** **Advanced:** ECC DDR3 Memory (24GB) **Performance:** Hot-Swap 2.5" SAS/SATA HDD (5 HDDs) **Computing:** Intel® Xeon® E5500 Series (2 CPUs) **Management:** Remote Management (Virtual Media Key)	

ThinkServer TS200v

The Dependable Manageable Value Server

Machine Type 0981

PROCESSOR	Single Socket Intel® Core™ i5, Intel® Pentium®, Intel® Celeron®
MEMORY	1GB or 2GB std, 16GB max, 4 slots
HARD DISK DRIVES	SATA 3.0 Gb/s, 2 Direct-Cabled 3.5”
BASIC RAID	S/W RAID 0/1
I/O	1 PCIe x16, 1 PCIe x1, and 2 PCI

Dependable	Highly Manageable	Greener
Real Server Reliability	“Always-on” Management	ENERGY STAR™ 1.0
24x7 Operation	Seamless AMT Extension	Ultra-quiet
Advanced RAID	Remote Management	30% Cost-savings

Top Options

Enterprise Class Hard Disk Drives

Every server holds critical business data. RAID 1 provides data protection through mirrored drives. Enterprise Class Hard Disk Drives are essential for RAID 1.

ThinkServer 250GB (67Y1400) and 500GB (67Y1401) SATA 3.5"

Rugged, Efficient RDX Backup

ThinkServer DDR3 memory gives your server the speed boost to get breakthrough performance.

ThinkServer 2GB DDR3 1333MHz UDIMM (2Rx8) (67Y1388)

Gigabit Ethernet Networking

Lenovo’s Gigabit Ethernet server adapter allows your server to gain additional two ports with a single PCIe slot.

Lenovo PRO/1000 PT Dual Port Ethernet Adapter by Intel® (67Y0179)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

Lenovo ThinkServer TS200

The Affordable Rock-Solid Dependable Server

PROCESSOR	Single Socket; Intel® Core™ i3
MEMORY	1GB or 2GB std; 6 RDIMM slots, 4 UDIMM slots
HARD DISK DRIVES	3.5"x4 HS/SS SATA or 3.5" x 4 HS SAS
BASIC RAID	RAID 0, 1
ADVANCED RAID	RAID 0, 1, 10 via SR M1015; RAID 0,1,10,5 via SR MR1000 Adv Key
I/O	2x8 PCIe Gen2; 2x4 PCIe; 2 PCI 5V

Rock-Solid	Dependable	Greener
Advanced ECC	Integrated Gigabit Ethernet	92% efficient PSU
Advanced RAID	Dedicated RAID PCIe slot	Low-wattage CPU

Top Options

Energy-efficient, High-performance Hard Disk Drives

6 GB/s SAS interface hot-swap hard drives provide your server with solid performance and high availability. 3.5-inch SATA Hard Drives are the among the industry's most reliable, energy storage options available.

ThinkServer 300GB 15K 3.5" Hot-Swap SAS (67Y1384)
ThinkServer 250GB 7.2K 3.5" Hot-Swap SATA (45J6201)

High-performance Memory

With a choice of high-performance uDIMM or high reliability rDIMM, ThinkServer memory provide your server with a quality solution.

ThinkServer 2GB PC3-10600 DDR3 1333MHz uDIMM (67Y0123)
ThinkServer 2GB PC3-10600 1Gbit DDR3 1333MHz rDIMM (67Y0124)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection

ThinkServer IBM ServeRAID 1015 Controller (67Y1368)
ThinkServer IBM ServeRAID 5014 Controller (67Y0185)
ThinkServer IBM ServeRAID M5000 Series Advanced Feature Key (67Y0188)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

ThinkServer®

Lenovo ThinkServer TD200

The Scalable Flexibe All-In-One Server

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series processor
MEMORY	2GB std, 48GB max memory, 12 slots
HARD DISK DRIVES	4xHS SAS/SATA 3.5" or 8xHS SAS/SATA 2.5"
BASIC RAID	RAID 0, 1
ADVANCED RAID	SR-MR10i for RAID 0, 1, 5, 6, 10, 50, 60
I/O	2 PCIe

Rock-Solid	Dependable	Green
Advanced ECC	Integrated Gigabit Ethernet	92% efficient PSU
Advanced RAID	Dedicated RAID PCIe slot	Low-wattage CPU

Top Options

Energy-efficient, High-performance Hard Disk Drives

Simple-Swap and Hot-Swap 3.5" hard disk drives for high serviceability and availability. Hot-Swap SAS leverages high performance 6Gbps interface.

ThinkServer 300GB 15K 3.5" Hot-Swap SAS (67Y1384)
ThinkServer 250GB 7.2K 3.5" Hot-Swap SATA (45J6201)

High Reliability Memory

DDR3 with Advanced ECC provide your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 2GB PC3-10600 DDR3 1333MHz rDIMM (67Y0015)
ThinkServer 4GB PC3-10600 DDR3 1333MHz rDIMM (67Y0016)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer IBM® ServeRAID 5014 Controller (67Y0185)
ThinkServer IBM® ServeRAID M5000 Series Advanced Feature Key (67Y0188)

Advanced Features for Manageability

TD200 provides an on-board connector to upgrade to advanced management.

ThinkServer IBM® Virtual Media Key (67Y0182)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

Lenovo ThinkServer TD230

The Affordable Manageable Green Server

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series (Nehalem); Intel® Xeon® 5600 (Westmere)
MEMORY	2GB std, 32GB max memory, 8 slots
HARD DISK DRIVES	4x3.5" SAS/SAS Hot-Swap 5x3.5" SAS/SATA Direct-Connect
BASIC RAID	SATA RAID 0, 1, 10
ADVANCED RAID	SATA RAID 5 Upgrade Key
I/O	2xPCIe (x8), 1xPCIe (x4), 1xPCI 32-bit

Affordable	Manageable	Green
Low-cost Backup Options	iBMC Built-in	ENERGY STAR™ 1.0
Low Total Cost of Ownership	Remote Power On/Off	Efficient PSUs

Top Options

Enterprise-class Reliability and Cost-efficient

Cabled and Hot-Swap 3.5" hard disk drives for high serviceability and availability. Hot-Swap SAS leverages high-performance 6Gbps interface.

ThinkServer 500GB 7.2K 3.5" SATA (DC/HS) (67Y1401)
ThinkServer 450GB SAS 15K 6Gbps (HS) (67Y1462)

High Reliability Memory

DDR3 with ECC provide your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 2GB DDR3 1333MHz (2Rx8) ECC rDIMM (67Y1432)
ThinkServer 4GB DDR3 1333MHz (2Rx4) ECC rDIMM (67Y1433)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer RD230 SATA RAID 5 Upgrade (67Y1459)

Advanced Features for Manageability

TD230 provides an on-board connector to upgrade to advanced management.

ThinkServer Remote Management Module (67Y1461)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

Lenovo ThinkServer TD200x

The Scalable Performance Green Server

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series processor
MEMORY	1GB std, 128MB max memory, 16 slots
HARD DISK DRIVES	8x2.5" or 16x2.5" HS SAS/SATA SFF models
BASIC RAID	RAID 0, 1
ADVANCED RAID	SR-MR10i for RAID 0, 1, 1E, 5, 6, 10, 50, 60
I/O	5 PCIe

Scalable	Enterprise Features	Green
Up to 16 2.5" HDDs	Integrated Management	ENERGY STAR™ 1.0
128GB Max Memory	On-Board Virtualization	Low-power Options

Top Options

Energy-efficient, Slim Form Factor Hard Disk Drives

Slim form factor 2.5" hard disk drives provide high performance with less energy consumption. TD200x provides a high GB/volume capacity.

ThinkServer 146GB 10K 2.5" SFF Hot-Swap SAS HDD (67Y0116)
ThinkServer 300GB 10K 2.5" SFF Hot-Swap SATA HDD (67Y0002)

High Reliability Memory

DDR3 with Advanced ECC provide your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 2GB PC3-10600 DDR3 1333MHz rDIMM (67Y0015)
ThinkServer 4GB PC3-10600 DDR3 1333MHz rDIMM (67Y0016)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer IBM® ServeRAID 5014 Controller (67Y0185)
ThinkServer IBM® ServeRAID M5000 Series Advanced Feature Key (67Y0188)

Gigabit Ethernet Expansion

Easy board connectivity for additional Gigabit Ethernet ports.

ThinkServer IBM® Dual Port 1GB Ethernet Daughter Card (67Y0180)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

ThinkServer®

Lenovo ThinkServer RS210

The Compact Reliable Green Server

PROCESSOR	Single Socket; Intel® Core™ i3
MEMORY	1GB or 2GB std; 6 RDIMM slots, 4 UDIMM slots
HARD DISK DRIVES	2x3.5" HS SAS/SATA or 4x2.5" HS SAS
BASIC RAID	RAID 0, 1
ADVANCED RAID	RAID 0, 1, 10 via SR M1015; RAID 0, 1, 10, 5 via SR MR1000 Adv Key
I/O	2x8 PCIe Gen2; 2x4 PCIe; 2 PCI 5V

Rock-Solid	Dependable	Greener
Advanced ECC	Integrated Gigabit Ethernet	92% efficient PSU
Advanced RAID	Dedicated RAID PCIe slot	Low-wattage CPU

Top Options

Energy-efficient, High-performance Hard Disk Drives

6GB/s SAS interface hot-swap hard disk drives provide your server with solid performance and high availability. 3.5" SATA Hard Disk Drives are the among the industry's most reliable, energy storage options available.

ThinkServer 300GB 15K 3.5" Hot-Swap SAS (67Y1384)
ThinkServer 250GB 7.2K 3.5" Hot-Swap SATA (45J6201)

High-performance Memory

With a choice of high-performance uDIMM or high reliability rDIMM, ThinkServer memory provide your server with a quality solution.

ThinkServer 2GB PC3-10600 DDR3 1333MHz uDIMM (67Y0123)
ThinkServer 2GB PC3-10600 1Gbit DDR3 1333MHz rDIMM (67Y0124)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer IBM® ServeRAID 1015 Controller (67Y1368)
ThinkServer IBM® ServeRAID 5014 Controller (67Y0185)
ThinkServer IBM® ServeRAID M5000 Series Advanced Feature Key (67Y0188)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

Lenovo ThinkServer RD210

The Compact Green Manageable Server

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series processor
MEMORY	1GB std, 128GB max memory, 16 slots
HARD DISK DRIVES	SAS/SATA 6.0Gb/s, 6x2.5" Hot-Swap
BASIC RAID	RAID 0, 1
ADVANCED RAID	SR-MR10i for RAID 0, 1, 1E, 5, 6, 10, 50, 60
I/O	2 PCIe

Manageable	Enterprise Features	Green
IMM Standard	Integrated Management	ENERGY STAR™ 1.0
IMM Premium Upgrade	On-Board Virtualization	Low-Power Options

Top Options

Energy-efficient, Slim Form Factor Hard Disk Drives

Slim form factor 2.5" hard disk drives provide high-performance with less energy consumption. TD200x provides a high GB/volume capacity.

ThinkServer 146GB 10K 2.5" SFF Hot-Swap SAS HDD (67Y0116)
ThinkServer 300GB 10K 2.5" SFF Hot-Swap SATA HDD (67Y0002)

High Reliability Memory

DDR3 with Advanced ECC provide your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 2GB PC3-10600 DDR3 1333MHz rDIMM (67Y0015)
ThinkServer 4GB PC3-10600 DDR3 1333MHz rDIMM (67Y0016)

Reliable Networking Expansion

RD210 provides an excellent solution for a business looking to leverage a high performance server in a NAS architecture.

ThinkServer IBM® 8GB FC Dual-Port HBA by QLogic (67Y0173)
ThinkServer IBM® 8GB FC Single-Port HBA by Emulex (67Y0174)

Advanced Features for Manageability

TD200 provides an on-board connector to upgrade to advanced management.

ThinkServer IBM® Virtual Media Key (67Y0182)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

Lenovo ThinkServer RD230

The Affordable Greener Scalable Server

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series (Nehalem); Intel® Xeon® 5600 (Westmere)
MEMORY	2GB std, 64GB max memory, 8 slots
HARD DISK DRIVES	4x3.5" SAS/SAS Hot-Swap
BASIC RAID	SATA RAID 0, 1, 10
ADVANCED RAID	SAS/SATA RAID 8708ELP Adapter
I/O	1xPCIe (x16)

Manageable	Enterprise Features	Green
iBMC Standard	High Reliability SAS/SATA	ENERGY STAR™ 1.0
Remote Management Capable	RAID 5 Standard	Quiet Operation

Top Options

Energy-efficient, Reliable Hard Disk Drives

Enterprise-class reliability hard disk drives in 3.5" form factor.

ThinkServer 250GB SATA 7.2K Hot-Swap (67Y1400)
ThinkServer 300GB SAS 15K Hot-Swap (67Y1437)

High Reliability Memory

DDR3 with ECC provides your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 4GB DDR3 1333MHz (2Rx4) ECC rDIMM (67Y1433)
ThinkServer 8GB DDR3 1333MHz (2Rx4) ECC rDIMM (67Y1464)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer 8708ELP RAID Controller (256MB) (67Y1494)
ThinkServer 8708ELP RAID Battery (67Y1495)

Gigabit Ethernet Expansion

Easy board connectivity for additional Gigabit Ethernet ports.

ThinkServer IBM Dual Port 1GB Ethernet Daughter Card (67Y0180)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

Lenovo ThinkServer RD220

The Faster Greener Scalable Server

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series processor
MEMORY	1GB std, 128GB max memory, 16 slots
HARD DISK DRIVES	8x2.5" HS SAS/SATA SFF with Internal Tape 12x2.5" HS SAS/SATA SFF
BASIC RAID	RAID 0, 1
ADVANCED RAID	SR-MR10i for RAID 0, 1, 1E, 5, 6, 10, 50, 60
I/O	4 PCIe

Manageable	Enterprise Features	Green
IMM Standard	Integrated Management	ENERGY STAR™ 1.0
IMM Premium Upgrade	On-Board Virtualization	Low-Power Options

Top Options

Energy-efficient, Slim Form Factor Hard Disk Drives

Slim form factor 2.5" hard disk drives provide high performance with less energy consumption. TD200x provides a high GB/volume capacity.

ThinkServer 146GB 10K 2.5" SFF Hot-Swap SAS HDD (67Y0116)
ThinkServer 300GB 10K 2.5" SFF Hot-Swap SATA HDD (67Y0002)

High Reliability Memory

DDR3 with Advanced ECC provide your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 2GB PC3-10600 DDR3 1333MHz rDIMM (67Y0015)
ThinkServer 4GB PC3-10600 DDR3 1333MHz rDIMM (67Y0016)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer IBM® ServeRAID 5014 Controller (67Y0185)
ThinkServer IBM® ServeRAID M5000 Series Advanced Feature Key (67Y0188)

Gigabit Ethernet Expansion

Easy board connectivity for additional Gigabit Ethernet ports.

ThinkServer IBM® Dual Port 1GB Ethernet Daughter Card (67Y0180)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

ThinkServer®

Lenovo ThinkServer RD240

The Performance Reliable Scalable Server

Manageable	Enterprise Features	Green
iBMC Standard	High Reliability SAS/SATA	ENERGY STAR™ 1.0
Remote Management Capable	RAID 5 Standard	Quiet Operation

PROCESSOR	Dual Socket; Intel® Xeon® 5500 Series (Nehalem); Intel® Xeon® 5600 (Westmere)
MEMORY	2GB std, 64GB max memory, 8 slots
HARD DISK DRIVES	8x3.5" SAS/SAS Hot-Swap
BASIC RAID	SATA RAID 0, 1, 10
ADVANCED RAID	SAS/SATA RAID 8708ELP Adapter
I/O	1x PCIe (x8)

Top Options

Energy-efficient, Reliable Hard Disk Drives

Enterprise-class reliability hard disk drives in 3.5" form factor.

ThinkServer 500GB SATA 7.2K Hot-Swap (67Y1479)
ThinkServer 450GB SAS 15K Hot-Swap (67Y1482)

High Reliability Memory

DDR3 with ECC provides your server with the data integrity it needs to maintain high productivity without compromising reliability.

ThinkServer 4GB DDR3 1333MHz (2Rx4) ECC rDIMM (67Y1433)
ThinkServer 8GB DDR3 1333MHz (2Rx4) ECC rDIMM (67Y1464)

Essential RAID Data Protection

As your data grows, your data protection needs become more critical. Lenovo provides easy ways to upgrade your RAID protection.

ThinkServer 8708ELP RAID Controller (256MB) (67Y1494)
ThinkServer 8708ELP RAID Battery (67Y1495)

Gigabit Ethernet Expansion

Easy board connectivity for additional Gigabit Ethernet ports.

ThinkServer IBM Dual Port 1GB Ethernet Daughter Card (67Y0180)

For a complete list of compatible options, refer to the Options Compatibility Matrix (OCM) at the back of this guide.

ThinkServer®

System Management Software

ThinkServer software tools simplify server installation, configuration and management. ThinkServer EasyStartup and EasyManage help quickly configure systems right out of the box. These easy-to-use software tools for Lenovo ThinkServer systems provide features that bring ThinkServer systems into operation quickly and keep them optimized for maximum performance.

- EasyStartup lets you get your server up and running quickly and painlessly so you can focus on your business
  - Designed to Simplify Initial Configuration
  - Easy and Intuitive

- EasyManage gives you the flexibility to manage your system efficiently and effectively
  - Health Dashboard
  - Monitoring and Alerting
  - Integrated Lenovo ThinkServer Updates

ThinkServer EasyManage, developed in partnership with LANDesk®, provides essential server hardware management functions. This solution can be expanded to include software patch, security, antivirus and much more and can also be extended to manage Lenovo ThinkPad notebooks and ThinkCentre® desktops on the network. For more information, visit www.lenovo.landesk.com

Options Compatibility Matrix: ThinkServer Operating Systems

Part Number	Description	Languages
English ROKs		
84978HE	Microsoft® Windows Server® 2008 R2 Foundations (w/15 CALs)	English, French, Italian, German, Spanish
84978KE	Microsoft® Windows Server® 2008 R2 Standard (w/5 CALs)	English
84978LE	Microsoft® Windows Server® 2008 R2 Enterprise (w/25 CALs)	English
84978ME	Microsoft® Windows Server® 2008 SBS w/SP2 Standard (w/5 CALs)	English
84978NE	Microsoft® Windows Server® 2008 SBS w/SP2 Premium (w/5 CALs)	English
French ROKs		
84978HE	Microsoft® Windows Server® 2008 R2 Foundations (w/15 CALs)	English, French, Italian, German, Spanish
84978OE	Microsoft® Windows Server® 2008 R2 Standard (w/5 CALs)	French, Italian, German, Spanish
84978PE	Microsoft® Windows Server® 2008 R2 Enterprise (w/25 CALs)	French, Italian, German, Spanish
84978MF	Microsoft® Windows Server® 2008 SBS w/SP2 Standard (w/5 CALs)	French
German ROKs		
84978HE	Microsoft® Windows Server® 2008 R2 Foundations (w/15 CALs)	English, French, Italian, German, Spanish
84978KG	Microsoft® Windows Server® 2008 R2 Standard (w/5 CALs)	German
84978LG	Microsoft® Windows Server® 2008 R2 Enterprise (w/25 CALs)	German
84978MG	Microsoft® Windows Server® 2008 SBS w/SP2 Standard (w/5 CALs)	German
Japanesse ROKs		
84978HA	Microsoft® Windows Server® 2008 R2 Foundations (w/15 CALs)	Japanese
84978OA	Microsoft® Windows Server® 2008 R2 Standard (w/5 CALs)	Japanese
84978PA	Microsoft® Windows Server® 2008 R2 Enterprise (w/25 CALs)	Japanese

Part Number	Description	Languages
Italian & Spanish ROKs		
84978HE	Microsoft® Windows Server® 2008 R2 Foundations (w/15 CALs)	English, French, Italian, German, Spanish
84978OE	Microsoft® Windows Server® 2008 R2 Standard (w/5 CALs)	French, Italian, German, Spanish
84978PE	Microsoft® Windows Server® 2008 R2 Enterprise (w/25 CALs)	French, Italian, German, Spanish
849781A	Microsoft® Windows Server® 2008 CAL 1 user CAL AG Bundle	Americas Group
849785A	Microsoft® Windows Server® 2008 CAL 5 user CAL AG Bundle	Americas Group
849785B	Microsoft® Windows Server® 2008 Terminal Services CAL 5 user CAL AG Bundle	Americas Group
849781C	Microsoft® Windows® SBS Standard 2008 CAL, 1 user CAL AG Bundle	Americas Group
849781D	Microsoft® Windows® SBS Premium 2008 CAL, 1 user CAL AG Bundle	Americas Group
849785C	Microsoft® Windows® SBS Standard 2008 CAL, 5 user CAL AG Bundle	Americas Group
849785D	Microsoft® Windows® SBS Premium 2008 CAL, 5 user CAL AG Bundle	Americas Group
849781G	Microsoft® Windows Server 2008 CAL 1 user CAL EMEA Bundle	Europe/Middle East/Africa
849785G	Microsoft® Windows Server® 2008 CAL 5 user CAL EMEA Bundle	Europe/Middle East/Africa
849785H	Microsoft® Windows Server® 2008 Terminal Services CAL 5 user CAL EMEA Bundle	Europe/Middle East/Africa
849781I	Microsoft® Windows® SBS Standard 2008 CAL, 1 user CAL EMEA Bundle	Europe/Middle East/Africa
849781J	Microsoft® Windows® SBS Premium 2008 CAL, 1 user CAL EMEA Bundle	Europe/Middle East/Africa
849785I	Microsoft® Windows® SBS Standard 2008 CAL, 5 user CAL EMEA Bundle	Europe/Middle East/Africa
849785J	Microsoft® Windows® SBS Premium 2008 CAL, 5 user CAL EMEA Bundle	Europe/Middle East/Africa
849781M	Microsoft® Windows Server® 2008 CAL 1 user CAL AP&GC Bundle	Asia Pacific/Greater China
849785M	Microsoft® Windows Server® 2008 CAL 5 user CAL AP&GC Bundle	Asia Pacific/Greater China
849785N	Microsoft® Windows Server® 2008 Terminal Services CAL 5 user CAL AP&GC Bundle	Asia Pacific/Greater China
849781O	Microsoft® Windows® SBS Standard 2008 CAL, 1 user CAL AP&GC Bundle	Asia Pacific/Greater China
849781P	Microsoft® Windows SBS Premium 2008 CAL, 1 user CAL AP&GC Bundle	Asia Pacific/Greater China
849785O	Microsoft® Windows SBS Standard 2008 CAL, 5 user CAL AP&GC Bundle	Asia Pacific/Greater China
849785P	Microsoft® Windows SBS Premium 2008 CAL, 5 user CAL AP&GC Bundle	Asia Pacific/Greater China

Options Compatibility Matrix: Second Generation ThinkServer

DESCRIPTION	Lenovo Part Number	TS200v 0981 - 11x, 12x, 14x, 18x, 19x, 1AX	TS200v 0992 - 11x	TD230 1027 - 11x, 12x	TD230 1029 - 11x, 12x, 13x	RD230 4010 - 11x	RD230 4011 - 12x, 13x, 14x, 15x	RD240 1045 - 11x	RD240 1046 - 11x, 12x, 13x, 14x, 15x
Processors									
Intel® Xeon® E5503 processor Option kit for ThinkServer				67Y1448	67Y1448	67Y1483	67Y1483	67Y1466	67Y1466
Intel® Xeon® E5506 processor Option kit for ThinkServer				67Y1449	67Y1449	67Y1484	67Y1484	67Y1467	67Y1467
Intel® Xeon® E5640 processor Option kit for ThinkServer						67Y1488	67Y1488	67Y1471	67Y1471
Intel® Xeon® E5620 processor Option kit for ThinkServer				67Y1457	67Y1457	67Y1492	67Y1492	67Y1475	67Y1475
Intel® Xeon® E5507 processor Option kit for ThinkServer				67Y1458	67Y1458	67Y1493	67Y1493	67Y1476	67Y1476
Memory									
DDR3 Memory									
ThinkServer 1GB DDR3 1333MHz (1Rx8)	67Y1387	•	•						
ThinkServer 2GB DDR3 1333MHz (2Rx8)	67Y1388	•	•						
ThinkServer 2GB DDR3 1333MHz (2Rx8) ECC RDIMM	67Y1432			•	•	•	•	•	•
ThinkServer 4GB DDR3 1333MHz (2Rx8)	67Y1389	•	•						
ThinkServer 4GB DDR3 1333MHz (2Rx4) ECC RDIMM	67Y1433			•	•	•	•	•	•
ThinkServer 8GB DDR3 1333 MHz (2Rx4) ECC RDIMM	67Y1464					•	•	•	•
Storage									
SATA Drive 3.5"									
ThinkServer 250GB 7.2K 3.5" SATA Hard Drive (DC/HS)	67Y1400	•	•	•	•	•	•		
ThinkServer 500GB 7.2K 3.5" SATA Hard Drive (DC/HS)	67Y1401	•	•	•	•	•	•		
ThinkServer 1TB 7.2K 3.5" SATA Hard Drive (DC/HS)	67Y1402	•	•	•	•	•	•		
ThinkServer 250GB 7.2K 3.5" SATA Hard Drive (HS)	67Y1478							•	•
ThinkServer 500GB 7.2K 3.5" SATA Hard Drive (HS)	67Y1479							•	•
ThinkServer 1TB 7.2K 3.5" SATA Hard Drive (HS)	67Y1480							•	•
SAS Drive 3.5"									
ThinkServer 300GB SAS 15K 6Gbps Hard Drive (HS)	67Y1437			1	1	•	•		
ThinkServer 450GB SAS 15K 6Gbps Hard Drive (HS)	67Y1462			1	1	•	•		
ThinkServer 300GB SAS 15K 6Gbps Hard Drive (HS)	67Y1481							•	•
ThinkServer 450GB SAS 15K 6Gbps Hard Drive (HS)	67Y1482							•	•
RDX Backup Storage									
Lenovo 160GB Internal USB RDX Bundle	67Y1394	•	•	•	•				
Lenovo 320GB Internal USB RDX Bundle	67Y1396	•	•	•	•				
Lenovo 500GB Internal USB RDX Bundle	67Y1398	•	•	•	•				
Lenovo 160GB RDX Data Cartridge	67Y1395	•	•	•	•				
Lenovo 320GB RDX Data Cartridge	67Y1397	•	•	•	•				
Lenovo 500GB RDX Data Cartridge	67Y1399	•	•	•	•				
Connectivity									
Lenovo PRO/1000 PT Dual Port Ethernet Adapter by Intel®	67Y1393	•	•	•	•	•	•	•	•
RAID									
ThinkServer TD230 SATA RAID 5 Upgrade	67Y1459			•	•				
ThinkServer 9240-8i SAS/SATA RAID Adapter	67Y1460			•	•				
ThinkServer 8708ELP RAID Controller (256MB)	67Y1494					•	•	•	•
ThinkServer 8708ELP RAID Controller Battery	67Y1495					•	•	•	•
System Options									
ThinkServer Remote Management Module 3 by Intel®	67Y1461			•	•				
ThinkServer RD240 Redundant Power Supply	67Y1497							•	•
Monitors									
Lenovo ThinkVision L151 Monitor: 15" Analog TFT	9165AC6	•	•	•	•	•	•	•	•
Lenovo ThinkVision L171 Monitor: 17" Analog TFT	9227AD1	•	•	•	•	•	•	•	•
Lenovo ThinkVision L193p LCD Monitor: 19" Analog, Digital	4431HB2	•	•	•	•	•	•	•	•
Keyboards and Mice									
ThinkPad Travel UltraNav® USB Keyboard - US English	55Y9003	•	•	•	•	•	•	•	•
Lenovo Preferred Pro Keyboard USB - US English 103P	73P5220	•	•	•	•	•	•	•	•
Lenovo Optical Mouse	06P4069	•	•	•	•	•	•	•	•

1. SAS drives require HW SAS RAID on 1027-11x, 12x and 1029-11x, 12x. 1029-13x includes HW SAS RAID.

Options Compatibility Matrix: First Generation ThinkServer (Towers)

DESCRIPTION	Lenovo Part Number	TS100 6432-17x, 18x, 19x	TS100 6434-13x	TS100 6434-14x, 15x, 16x, 17G	TS200 6524-11x	TS200 6525-11x, 15x	TS200 6525 - 12x, 13x, 16x	TS200 6530 - 12x, 13x, 14x, 15x	TD100 6399-13x, 14x, 15x	TD100 6429-14x, 15x, 16x, 17x, 18x, 19x	TD100x 4206-14x	TD200 3809-3AX	TD200 3809-3BX	TD200 3817-3GX	TD200x 3822-47x	TD200x 3822- 41x, 42x, 43x, 48x
PROCESSORS																
Intel® Xeon® processor E5405 (2.00GHz, 1333MHz FSB, 12MB, 80W)	45J6221								•							
Intel® Xeon® processor E5410 (2.33GHz, 1333MHz FSB, 12MB, 80W)	45J6185									1						
Intel® Xeon® processor E5430 (2.66GHz, 1333MHz FSB, 12MB, 80W)	45J6186									1						
Intel® Xeon® processor E5420 (2.50GHz, 1333MHz FSB, 12MB, 80W)	45K1605									1						
Intel® Xeon® processor X5450 (3.00GHz, 1333MHz FSB, 12MB, 80W)	45K1608										•					
Intel® Xeon® processor E5502 (1.86 GHz) Option kit for ThinkServer Towers	67Y0008											•				
Intel® Xeon® processor E5504 (2.00 GHz) Option kit for ThinkServer Towers	67Y0009												•		•	
Intel® Xeon® processor E5506 (2.13 GHz) Option kit for ThinkServer Towers	67Y0010													•		
Intel® Xeon® processor E5520 (2.26 GHz) Option kit for ThinkServer Towers	67Y0011															1
Intel® Xeon® processor E5530 (2.40 GHz) Option kit for ThinkServer Towers	67Y0102															1
MEMORY																
DDR2 Memory																
ThinkServer 1GB PC2-6400 (800MHz) ECC DDR2 SDRAM Memory	45J6188	•	•	•												
ThinkServer 2GB PC2-6400 (800MHz) ECC DDR2 SDRAM Memory	45J6189	•	•	•												
ThinkServer 1GB PC2-5300 (667MHz) ECC DDR2 FBDIMM Memory	45J6191								•	•	•					
ThinkServer 2GB PC2-5300 (667MHz) ECC DDR2 FBDIMM Memory	45J6192								•	•	•					
ThinkServer 4GB PC2-5300 (667MHz) ECC DDR2 FBDIMM Memory	45J6193								•	•	•					
DDR3 Memory																
ThinkServer 1GB PC3-10600 DDR3 1333MHz UDIMM	67Y0122				3,4	3,4	3,4	3,4								
ThinkServer 2GB PC3-10600 DDR3 1333MHz UDIMM	67Y0123				3,4	3,4	3,4	3,4								
ThinkServer 2GB PC3-10600 1Gbit DDR3 1333MHz RDIMM	67Y0124				3	3	3	3								
ThinkServer 4GB PC3-8500 1Gbit DDR3 1066MHz RDIMM	67Y0125				3,4	3,4	3,4	3,4								
ThinkServer 1GB PC3-10600 DDR3 1333MHz RDIMM	67Y0014				3	3	3	3				•	•	•	•	•
ThinkServer 2GB PC3-10600 DDR3 1333MHz RDIMM	67Y0015											•	•	•	•	•
ThinkServer 4GB PC3-10600 DDR3 1333MHz RDIMM	67Y0016											•	•	•	•	•
STORAGE																
SATA Drive 3.5"																
ThinkServer 250GB 3.5" Simple-Swap SATA II Drive	45J6196	•	•		•	•			•			•				
ThinkServer 500GB 3.5" Simple-Swap SATA II Drive	45J6197	•	•		•	•			•			•				
ThinkServer 1TB 3.5" Simple-Swap SATA II Drive	67Y1380				•	•										
ThinkServer 250GB 3.5" Hot-Swap SATA II Drive	45J6201			2			2	2		2	2		2	2	2	
ThinkServer 500GB 3.5" Hot-Swap SATA II Drive	45J6202			2			2	2		2	2		2	2	2	
ThinkServer 1TB 3.5" Hot-Swap SATA II Drive	45J6204			2			2	2		2	2		2	2	2	
SAS Drive 3.5"																
ThinkServer 146GB 15K 3.5" Hot-Swap SAS Drive (6Gbps)	45J6211			2			2	2		2	2		2	2	2	
ThinkServer 300GB 15K 3.5" Hot-Swap SAS Drive (6Gbps)	67Y1384			2			2	2		2	2		2	2	2	
ThinkServer 450GB 15K 3.5" Hot-Swap SAS Drive (6Gbps)	67Y1385			2			2	2		2	2		2	2	2	
ThinkServer 600GB 15K 3.5" Hot-Swap SAS Drive	67Y1386			2			2	2		2	2		2	2	2	
SATA Drive 2.5"																
ThinkServer 160GB 7.2K 2.5" SFF HS SATA	67Y0120															2
ThinkServer 300GB 10K 2.5" SFF HS SATA	67Y0002															2
ThinkServer 500GB 7.2K 2.5" SFF HS SATA	67Y0121															2
SAS Drive 2.5"																
ThinkServer 73GB 6.0 GB/s 15K 2.5" SAS SFF HS	67Y0115															2
ThinkServer 146GB 6.0 GB/s 10K 2.5" SAS SFF HS	67Y0116															2
ThinkServer 146GB 6.0 GB/s 15K 2.5" SAS SFF HS	67Y0117															2
ThinkServer 300GB 6.0 GB/s 10K 2.5" SAS SFF HS	67Y0118															2
Portable Drive																
Lenovo USB Portable Diskette Drive	05K9276	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
MONITORS AND MONITOR ACCESSORIES																
Monitors																
Lenovo TV L151 Monitor: 15" Analog TFT	9165AC6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo TV L171 Monitor: 17" Analog TFT	9227AD1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo ThinkVision L193p LCD Monitor: 19" Analog-Digital	4431HB2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

DESCRIPTION	Lenovo Part Number	TS100 6432-17x, 18x, 19x	TS100 6434-13x	TS100 6434-14x, 15x, 16x, 17G	TS200 6524-11x	TS200 6525-11x, 15x	TS200 6525 - 12x, 13x, 16x	TS200 6530 - 12x, 13x, 14x, 15x	TD100 6399-13x, 14x, 15x	TD100 6429-14x, 15x, 16x, 17x, 18x, 19x	TD100x 4206-14x	TD200 3809-3AX	TD200 3809-3BX	TD200 3817-3GX	TD200x 3822- 41x, 42x, 43x, 48x
KEYBOARDS AND MICE															
ThinkPad Travel UltraNav® USB Keyboard - U.S. English	31P9490	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo Preferred Pro Keyboard USB - U.S. English 103P	73P5220	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo Optical Mouse	06P4069	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BACKUP/TAPE															
ThinkServer IBM DDS Generation 6 USB Tape Drive	67Y0135	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM LTO Generation 4 SAS Half High Tape Drive	67Y0136	•	•	•					•	•					
ThinkServer IBM LTO Generation 3 SAS Half High Tape Drive	67Y0137	•	•	•	•	•	•	•	•	•					
ThinkServer IBM RDX160 Internal Bundle Tape Drive	67Y0138	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX320 Internal Bundle Tape Drive	67Y0139	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX500 Internal Bundle Tape Drive	67Y0140	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM DDS Generation 6 5-Pack Media	67Y1377	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM LTO Generation 4 5-Pack Media	67Y1378	•	•	•					•	•					
ThinkServer IBM LTO Generation 3 5-Pack Media	67Y1379	•	•	•	•	•	•	•	•	•					
ThinkServer IBM RDX 160GB Cartridge	67Y0169	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX 320GB Cartridge	67Y0170	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX 500GB Cartridge	67Y0171	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CONNECTIVITY															
ThinkServer IBM 8GB FC Single-port HBA by QLogic	67Y0172	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Dual-port HBA by QLogic	67Y0173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Single-port HBA by Emulex	67Y0174	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Dual-port HBA by Emulex	67Y0175	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Single-port HBA by Brocade	67Y0176	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Dual-port HBA by Brocade	67Y0177	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM NetXtreme II 1000 Dual Port Ethernet Adapter	67Y0178	•	•	•					•	•	•	•	•	•	•
RAID CONTROLLERS															
ThinkServer IBM SAS 3GB HBA Controller v2	67Y0183	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM ServeRAID M5015	67Y0184				•	•	•	•				•	•	•	•
ThinkServer IBM ServeRAID M5014	67Y0185				•	•	•	•				•	•	•	•
ThinkServer IBM ServeRAID M5000 Series Battery Kit	67Y0186				•	•	•	•				•	•	•	•
SYSTEM COMPONENTS															
ThinkServer IBM Virtual Media Key - Entry Servers	67Y0182				•	•	•					•	•	•	4
ThinkServer IBM 920W Redundant Power and Cooling	67Y1371											•	•	•	•
ENTRY RAID CONTROLLERS + ADVANCE FEATURE KEYS															
ThinkServer IBM ServeRAID M5000 Series Advance Feature Key	67Y0188				•	•	•	•				•	•	•	•
ThinkServer IBM ServeRAID M1015	67Y1368				•	•	•	•				•	•	•	•
ThinkServer IBM ServeRAID M1000 Series Advance Feature Key	67Y1369				•	•	•	•				•	•	•	•

1. Processor must match the existing processor in Slot 1.
2. Backplane allows mixed configuration of both SAS and SATA HDDs. However, both SAS and SATA HDDs cannot be configured in the same RAID group.
3. Cannot intermix RDIMM and UDIMM memory, however, both RDIMM and UDIMM are supported on all models.
4. Can only install a max of 4 DIMMS. rDIMMS can only be installed 2 per channel.

Options Compatibility Matrix: First Generation ThinkServer (Racks)

BRANDED

DESCRIPTION	Part Number	RS110 6436 - 15x, 16x	RS110 6438 - 13x	RS110 6438 - 14x, 18G	RS110 6438 - 15x, 16x, 17x	RS210 6533 - 11x, 12x	RS210 6534 - 16x	RS210 6534 - 11x, 12x, 17x	RS210 6534 - 13x, 14x, 15x	RD120 6445 - 12x, 13x 14x	RD120 6447 - 18x, 19x, 21x, 22x, 24x, 26x	RD120 6447 - 23x, 25x, 27x	RD210 3795 - 21x	RD210 3796 - 22x, 23x, 24x, 27x, 29x, 2Bx 2Cx, 2Dx	RD220 3798 - 11x, 13x, 15x, 16x, 17x, 14x, 1Dx, 1Ex, 1Fx, 1Hx, 1Jx, 1Lx
PROCESSORS															
Intel® Xeon® processor E5205 (1.86GHz, 1066MHz, 6MB, 65W)	45J6180									•					
Intel® Xeon® processor E5405 (2.00GHz, 1333MHz FSB, 12MB, 80W)	45J6221										1				
Intel® Xeon® processor E5410 (2.33GHz, 1333MHz FSB, 12MB, 80W)	45J6185										1				
Intel® Xeon® processor E5420 (2.50GHz, 1333MHz FSB, 12MB, 80W)	45K1605										1	2			
Intel® Xeon® processor E5430 (2.66GHz, 1333MHz FSB, 12MB, 80W)	45J6186										1				
Intel® Xeon® processor E5502 (1.86GHz) Option kit for ThinkServer Racks	67Y0004												•	1	1
Intel® Xeon® processor E5504 (2.00GHz) Option kit for ThinkServer Racks	67Y0007													1	1
Intel® Xeon® processor E5506 (2.13GHz) Option kit for ThinkServer Racks	67Y0005													1	1
Intel® Xeon® processor E5520 (2.26GHz) Option kit for ThinkServer Racks	67Y0006													1	1
Intel® Xeon® processor E5540 (2.53GHz) Option kit for ThinkServer Racks	67Y0096													1	1
MEMORY															
DDR2 Memory															
ThinkServer 1GB PC2-6400 (800MHz) ECC DDR2 SDRAM Memory	45J6188	•	•	•	•										
ThinkServer 2GB PC2-6400 (800MHz) ECC DDR2 SDRAM Memory	45J6189	•	•	•	•										
ThinkServer 1GB PC2-5300 (667MHz) ECC DDR2 FBDIMM Memory	45J6191									•	•	•			
ThinkServer 2GB PC2-5300 (667MHz) ECC DDR2 FBDIMM Memory	45J6192									•	•	•			
ThinkServer 4GB PC2-5300 (667MHz) ECC DDR2 FBDIMM Memory	45J6193									•	•	•			
DDR3 Memory															
ThinkServer 1GB PC3-10600 DDR3 1333MHz UDIMM	67Y0122					3,4	3,4	3,4	3,4						
ThinkServer 2GB PC3-10600 DDR3 1333MHz UDIMM	67Y0123					3,4	3,4	3,4	3,4						
ThinkServer 2GB PC3-10600 1Gbit DDR3 1333MHz RDIMM	67Y0124					7	7	7	7						
ThinkServer 4GB PC3-8500 1Gbit DDR3 1066MHz RDIMM	67Y0125					3,4	3,4	3,4	3,4						
ThinkServer 1GB PC3-10600 DDR3 1333MHz RDIMM	67Y0014					7	7	7	7				•	•	•
ThinkServer 2GB PC3-10600 DDR3 1333MHz RDIMM	67Y0015												•	•	•
ThinkServer 4GB PC3-10600 DDR3 1333MHz RDIMM	67Y0016												•	•	•
STORAGE															
SATA Drive 3.5"															
ThinkServer 250GB 3.5" Simple-Swap SATA II Drive	45J6196	•	•			•	•								
ThinkServer 500GB 3.5" Simple-Swap SATA II Drive	45J6197	•	•			•	•								
ThinkServer 1TB 3.5" Simple-Swap SATA II Drive	67Y1380					•	•								
ThinkServer 250GB 3.5" Hot-Swap SATA II Drive	45J6201			•				•		6	6				
ThinkServer 500GB 3.5" Hot-Swap SATA II Drive	45J6202			•				•		•	•				
ThinkServer 1TB 3.5" Hot-Swap SATA II Drive	45J6204			•				•		•	•				
SAS Drive 3.5"															
ThinkServer 146GB 15K 3.5" Hot-Swap SAS Drive (6Gbps)	45J6211			5				5		5	5				
ThinkServer 300GB 15K 3.5" Hot-Swap SAS Drive (6Gbps)	67Y1384			5				5		5	5				
ThinkServer 450GB 15K 3.5" Hot-Swap SAS Drive (6Gbps)	67Y1385			5				5		5	5				
ThinkServer 600GB 15K 3.5" Hot-Swap SAS Drive	67Y1386			5				5		5	5				
SATA Drive 2.5"															
ThinkServer 160GB 7.2K 2.5" SFF HS SATA	67Y0120												•	•	•
ThinkServer 300GB 10K 2.5" SFF HS SATA	67Y0002												•	•	•
ThinkServer 500GB 7.2K 2.5" SFF HS SATA	67Y0121												•	•	•
SAS Drive 2.5"															
ThinkServer 146GB 10K 2.5" Hot-Swap SAS Drive	45J6207				•							•			
ThinkServer 73GB 15K 2.5" Hot-Swap SAS Drive	45J6208				•							•			
ThinkServer 73GB 6.0GB/s 15K 2.5" SAS SFF HS	67Y0115								•				•	•	•
ThinkServer 146GB 6.0GB/s 10K 2.5" SAS SFF HS	67Y0116								•				•	•	•
ThinkServer 146GB 6.0GB/s 15K 2.5" SAS SFF HS	67Y0117								•				•	•	•
ThinkServer 300GB 6.0GB/s 10K 2.5" SAS SFF HS	67Y0118								•				•	•	•
Portable Drive															
Lenovo USB Portable Diskette Drive	05K9276	•	•	•	•	•	•	•	•	•	•	•	•	•	•

DESCRIPTION	Part Number	RS110 6436 - 15x, 16x	RS110 6438 - 13x	RS110 6438 - 14x, 18G	RS110 6438 - 15x, 16x, 17x	RS210 6533 - 11x, 12x	RS210 6534 - 16x	RS210 6534 - 11x, 12x, 17x	RS210 6534 - 13x, 14x, 15x	RD120 6445 - 12x, 13x 14x	RD120 6447 - 18x, 19x, 21x, 22x, 24x, 26x	RD120 6447 - 23x, 25x, 27x	RD210 3795 - 21x	RD210 3796 - 22x, 23x, 24x, 27x, 29x, 2Bx 2Cx, 2Dx	RD220 3798 - 11x, 13x, 15x, 16x, 17x, 14x, 1Dx, 1Ex, 1Fx, 1Hx, 1Jx, 1Lx
MONITORS AND MONITOR ACCESSORIES															
Monitors															
Lenovo TV L151 Monitor: 15" Analog TFT	9165AC6	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo TV L171 Monitor: 17" Analog TFT	9227AD1	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo ThinkVision L193p LCD Monitor: 19" Analog-Digital	4431HB2	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Keyboards and Mice															
ThinkPad Travel UltraNav® USB Keyboard - U.S. English	31P9490	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo Preferred Pro Keyboard USB - U.S. English 103P	73P5220	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lenovo Optical Mouse	06P4069	•	•	•	•	•	•	•	•	•	•	•	•	•	•
BACKUP/TAPE															
ThinkServer IBM DDS Generation 6 USB Tape Drive	67Y0135	3	3	3	3	3	3	3	3	4	4	4	3	3	5
ThinkServer IBM LTO Generation 4 SAS Half High Tape Drive	67Y0136	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ThinkServer IBM LTO Generation 3 SAS Half High Tape Drive	67Y0137					3	3	3	3	3	3	3	3	3	3
ThinkServer IBM RDX160 Internal Bundle Tape Drive	67Y0138									4	4	4			5
ThinkServer IBM RDX320 Internal Bundle Tape Drive	67Y0139									4	4	4			5
ThinkServer IBM RDX500 Internal Bundle Tape Drive	67Y0140									4	4	4			5
ThinkServer IBM RDX and DDS Tape Enablement Kit	67Y0168														•
ThinkServer IBM DDS Generation 6 5-Pack Media	67Y1377	•	•	•	•	•	•	•	•	•	•	•			•
ThinkServer IBM LTO Generation 4 5-Pack Media	67Y1378	•	•	•	•	•	•	•	•	•	•	•			•
ThinkServer IBM LTO Generation 3 5-Pack Media	67Y1379					•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX 160GB Cartridge	67Y0169	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX 320GB Cartridge	67Y0170	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM RDX 500GB Cartridge	67Y0171	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CONNECTIVITY															
ThinkServer IBM 8GB FC Single-port HBA by QLogic	67Y0172	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Dual-port HBA by QLogic	67Y0173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Single-port HBA by Emulex	67Y0174	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Dual-port HBA by Emulex	67Y0175	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Single-port HBA by Brocade	67Y0176	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM 8GB FC Dual-port HBA by Brocade	67Y0177	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM NetXtreme II 1000 Dual Port Ethernet Adapter	67Y0178	•	•	•	•	•	•	•	•	•	•	•	•	•	•
RAID CONTROLLERS															
ThinkServer IBM SAS 3GB HBA Controller v2	67Y0183	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ThinkServer IBM ServeRAID M5015	67Y0184					•	•	•	•				•	•	•
ThinkServer IBM ServeRAID M5014	67Y0185					•	•	•	•				•	•	•
ThinkServer IBM ServeRAID M5000 Series Battery Kit	67Y0186					•	•	•	•				•	•	•
SYSTEM COMPONENTS															
ThinkServer IBM Virtual Media Key	67Y0181												•	•	•
ThinkServer IBM Virtual Media Key - Entry Servers	67Y0182					•	•	•	•						
ThinkServer IBM 675W Redundant Power Supply	67Y1370												•	•	•
ThinkServer IBM Ultra-slim Enhanced SATA DVD-ROM	67Y1372					•	•	•	•				•	•	•
ThinkServer IBM Ultra-slim Enhanced SATA Multiburner	67Y1373					•	•	•	•				•	•	•
ThinkServer IBM Dual Port 1GB Ethernet Daughter Card	67Y0180												•	•	•
ENTRY RAID CONTROLLERS + ADVANCE FEATURE KEYS															
ThinkServer IBM ServeRAID M5000 Series Advance Feature Key	67Y0188					•	•	•	•				•	•	•
ThinkServer IBM ServeRAID M1015	67Y1368					•	•	•	•				•	•	•
ThinkServer IBM ServeRAID M1000 Series Advance Feature Key	67Y1369					•	•	•	•				•	•	•

1. Processor must match the existing processor in Slot 1.
2. RD120 6447 - 22x, 23x, 24x, 25x have both processors slots populated in the base configuration.
3. External only – connectivity requires enclosures 8765-1UX or 8767-HHX with Tape Enclosure Kits: SCSI - 42C3910: SAS/SATA - 40K2599: USB - 44E8869.
4. Can only install a max of 4 DIMMs. rDIMMs can only be installed 2 per channel.
5. Backplane allows configuration of both SAS and SATA HDDs. However, both SAS and SATA HDDs cannot be in the same RAID group.
6. 160GB and 250GB SATA II HDDs are not tested and qualified for these models.
7. Cannot intermix RDIMM and UDIMM memory, however, both RDIMM and UDIMM supported on all models.
8. Internal use requires ThinkServer IBM RD220 Enablement Kit 67Y0168.

Options Compatibility Matrix: First Generation ThinkServer Ready Options

DESCRIPTION	IBM Part Number	TS100	TS200	TD100	TD200	TD100x	TD200x	RS110	RS210	RD120	RD210	RD220
TAPE STORAGE												
Tape Drives and Bundles												
IBM RDX160 External Bundle	362516X	•	•	•	•	•	•	•	•	•	•	•
IBM RDX320 External Bundle	362532X	•	•	•	•	•	•	•	•	•	•	•
IBM RDX500 External Bundle	362550X	•	•	•	•	•	•	•	•	•	•	•
Tape Accessories												
IBM Tape Enablement Kit	43V5959									•	•	
IBM SAS/SATA Adapter Kit for External LTO SAS Attachment	40K2599							•				
CONTROLLERS												
HBAs												
IBM® Ultra 320 SCSI PCIe Controller	43W4324	•		•		•	•	•		•		
QLogic 4Gb FC Single-Port PCIe HBA	39R6525	•	•	•	•	•	•	•	•	•	•	•
QLogic 4Gb FC Dual-Port PCIe HBA	39R6527	•	•	•	•	•	•	•	•	•	•	•
QLogic iSCSI Single Port PCIe HBA	39Y6146	•	•	•	•	•	•	•	•	•	•	•
QLogic iSCSI Dual Port PCIe HBA	42C1770	•	•	•	•	•	•	•	•	•	•	•
I/O Controllers												
NetXtreme II 1000 Express G Ethernet Adapter	39Y6066	•	•	•	•	•	•	•	•	•	•	•
PRO/1000 PT Dual-Port Server Adapter by Intel®	39Y6126	•	•	•	•	•	•	•	•	•	•	•
PRO/1000 PT Quad-Port Server Adapter by Intel®	39Y6136			•	•	•	•	•	•	•	•	•
System Management												
IBM USB Memory Key for VMware® Hypervisor	41Y8269										•	•
IBM Remote Supervisor Adapter Slimline II	39Y9566	•		•		•		•		•		
Disk and RAID Controllers												
IBM ServeRAID 8k SAS Controller	25R8064			•		•				•		
IBM ServeRAID-MR10i SAS/SATA Controller	43W4296	•	•	•	•	•	•	•	•	•	•	•
IBM ServeRAID-MR10i Battery (Li-ion Battery)	44E8826	•	•	•	•	•	•	•	•	•	•	•
IBM ServeRAID-MR10is VAULT SAS/SATA Controller	44E8695	•	•	•	•	•	•	•	•	•	•	•
IBM ServeRAID-MR10M SAS/SATA Controller w/ Remote Battery Kit	44E8825	•	•	•	•	•	•	•	•	•	•	•
SWITCHES AND CONSOLE MANAGERS												
Switches												
IBM 3M Console Switch Cables	31R3132	•	•	•	•	•	•	•	•	•	•	•
IBM 1x8 Console Switch	17353LX		•	•	•	•	•	•	•	•	•	•
Console Managers												
IBM 2x8 Local Console Manager	17351GX	•	•	•	•	•	•	•	•	•	•	•

1. External only – connectivity requires enclosures 8765-1UX or 8767-HHX with Tape Enclosure Kits: SCSI – 42C3910: SAS/SATA – 40K2599: USB – 44E8869.
2. For use in a rack.
3. Requires Tower-to-Rack Conversion.

DESCRIPTION	IBM Part Number	TS100	TS200	TD100	TD200	TD100x	TD200x	RS110	RS210	RD120	RD210	RD220
POWER ACCESSORIES												
Uninterruptable Power Supplies												
IBM UPS 1000 TLV - US	2130R3X	•		•	•	•	•					
IBM UPS 1000 THV - International	2130R4X	•		•	•	•	•					
IBM UPS 1000 TJV - Japan Version	2130R8X	•		•		•						
IBM UPS 1500 THV - International	2130R6X	•		•	•	•	•					
IBM UPS 1500 TLV - US	2130R5X	•	•	•	•	•	•					
IBM UPS 1500 TJV - Japan Version	2130R9X	•		•		•						
IBM UPS 3000 LV - US	21301RX		•	•	•	•	•	•	•	•	•	•
IBM UPS 3000 HV - International	21302RX			•	•	•	•	•	•	•	•	•
IBM UPS 3000 HV - Japan Version	21302JX			•		•	•	•		•	•	•
IBM UPS 10000 XHV - Rackable	21304RX			•		•		•	•	•	•	•
IBM UPS 10000 XHV - Japan Version	21304JX			•		•		•	•	•	•	•
IBM UPS 3U Run Online Battery Pack	39Y8857	•	•	•			•	•		•	•	•
IBM UPS 3U Run Online Battery Pack - Japan Version	40K9783	•					•	•		•	•	•
Eaton UPS 3000 Extended Battery Module (EBM)	40K9620		•	•		•	•	•	•	•	•	•
Eaton UPS 3000 Extended Battery Module (EBM) - Japan Version	40K9788			•		•	•	•	•	•	•	•
IBM Eaton UPS 3000 LV with Fixed L5-30P Line Cord (US)	21301RX		•					•		•	•	•
Power Distribution Units												
DPI 100-127v PDU with Fixed Nema L5-15P Line Cord	39Y8905	2	2	2	2	2	2	2	2	2	2	2
30amp/125v Front End PDU with NEMA L6-30P	39Y8938	2	2	2	2	2	2	2	2	2	2	2
60amp/250v Front End PDU with IEC 309 60A 2P+N+Gnd	39Y8940	2	2	2	2	2	2	2	2	2	2	2
Universal Rack DPI	39Y8951	2	2	2	2	2	2	2	2	2	2	2
30amp/250V PDU with NEMA L5-30P	39Y8939	2	2	2	2	2	2	2	2	2	2	2
DPI 32A Single Phase C13 Enterprise PDU w/o Line Cord	39Y8941	2	2	2	2	2	2	2	2	2	2	2
Internal Power Supplies												
Redundant Power and Cooling - Tower Server	39Y8487			•		•						
835W Redundant Power Option - U.S.	40K1905									•		
835W Redundant Power Option - WW	40K1906									•		
Power Cables												
4.3m, 10A/120V, c13 to IEC 320-C14	39Y7932	2	2	2	2	2	2	2	2	2	2	2
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	39Y7931	2	2	2	2	2	2	2	2	2	2	2
1.5m, 10A/120V, c13 to IEC 320-C14	39Y7937	2	2	2	2	2	2	2	2	2	2	2
IBM DPI 30a Cord (NEMA L6-30P) (U.S.)	40K9614	2		2	2	2	2	2	2	2	2	2
IBM DPI 60a Cord (IEC 309 2P+G) (U.S.)	40K9615	2		2	2	2	2	2	2	2	2	2
RACKS AND RACK ACCESSORIES												
Racks												
IBM S2 Standard 25U Rack	93072RX	3	3	3	3	3	3	•	•	•	•	•
IBM S2 Standard 42U Rack	93074RX	3	3	3	3	3	3	•	•	•	•	•
IBM S2 Standard 42U Expansion Rack	93074XX	3	3	3	3	3	3	•	•	•	•	•
IBM S2 Dynamic 42U Rack (ship-loadable)	99564RX				3			•	•	•	•	•
IBM S2 Dynamic 42U Expansion Rack (ship-loadable)	99564XX				3			•	•	•	•	•
Tower-to-Rack Conversion Kits												
5Ux20D Tower-to-Rack Conversion Kit	42C8923	•	•									
5Ux26D Tower-to-Rack Conversion Kit	49Y6873						•					
5Ux26D Tower-to-Rack Conversion Kit	39Y8382			•	•	•						
Accessories												
IBM 1U 17" Flat Panel Monitor Console Kit w/ Optical Drive Bay	172317X	2	2	2	2	2	2	2	2	2	2	2
IBM 1U 19" Flat Panel Monitor Console Kit with Multiburner Drive	173219X	2	2	2	2	2	2	2	2	2	2	2
IBM 1U Quick Install Filler Panels	25R5559	2	2	2	2	2	2	2	2	2	2	2

Service and Support

Since your ThinkServer will play a critical role in your day-to-day business operations, ensure its flawless performance with a ThinkPlus Priority Support service plan. It gives you the highest level of support to keep your new Lenovo ThinkServer in peak working condition. What you can expect when you select Priority Support:

- 24/7
- Priority call routing
- Access to advanced skill technicians
- Next business day on-site service
- Basic usage and software installation support
- Lenovo's proven track record of service and support

Other services you may be interested in

THINKPLUS PRODUCTIVITY

A single service plan that combines ThinkPlus Priority Support with server installation and online training to get you up and running fast.

SERVER HW INSTALLATION

Get your ThinkServer system installed quickly and easily by a Lenovo-trained technician.

SERVER ONLINE TRAINING

Interactive online courses, Understanding ThinkServer Systems and Understanding Systems Management, designed to provide your technician the knowledge needed for basic setup, configuration, troubleshooting and management of Lenovo ThinkServer Systems for the small and medium business.

WARRANTY EXTENSIONS AND UPGRADES

Extend base warranty coverage from one to three years. Upgrade to on-site four-hour response for added convenience and peace of mind.

HARD DISK DRIVE RETENTION

In the event of a hard disk drive failure, Lenovo will let you keep your hard disk drive to ensure that your data remains in your hands.

*Targeted response time, after initial telephone troubleshooting.
**Online training is available in English only.
***4-hr response services not available on TS200v models.

ThinkServer

SERVICES

	TOWER SERVICE DESCRIPTION	P/N
T Series (Single Socket) with 1yr warranty	On-site Service, 9x5 Next Business Day, 3yr, TS-1yr	45K4055
	On-site Service, 9x5 4hr Response, 3yr, TS-1yr***	45K4056
	ThinkPlus Priority Support, 3yr, TS-1yr	45K4057
	ThinkPlus Priority 4, 3yr, TS-1yr***	45K4058
	ThinkPlus Priority Support w/HDDR, 3yr, TS-1yr	45K5441
	ThinkPlus Priority 4 w/HDDR, 3yr, TS-1yr***	45K5442
	ThinkPlus Productivity, 3yr, TS-1yr	45K4084
T Series (Single Socket) with 3yr warranty	On-site Service, 9x5 4hr Response, 3yr, TS-3yr***	45K4059
	ThinkPlus Priority Support, 3yr, TS-3yr	45K4060
	ThinkPlus Priority 4, 3yr, TS-3yr**	45K4061
	ThinkPlus Priority Support w/HDDR, 3yr, TS-3yr	45K5443
	ThinkPlus Priority 4 w/HDDR, 3yr, TS-3yr***	45K5444
	ThinkPlus Productivity, 3yr, TS-3yr	45K4086
T Series (Dual Socket) with 1yr warranty	On-site Service, 9x5 Next Business Day, 3yr, TD-1yr	45K4062
	On-site Service, 9x5 4hr Response, 3yr, TD-1yr	45K4063
	ThinkPlus Priority Support, 3yr, TD-1yr	45K4064
	ThinkPlus Priority 4, 3yr, TD-1yr	45K4065
	ThinkPlus Priority Support w/HDDR, 3yr, TD-1yr	45K5445
	ThinkPlus Priority 4 w HDDR, 3yr, TD-1yr	45K5446
	ThinkPlus Productivity, 3yr, TD-1yr	45K4088
T Series (Dual Socket) with 3yr warranty	On-site Service, 9x5 4hr Response, 3yr, TD-3yr	45K4066
	ThinkPlus Priority Support, 3yr, TD-3yr	45K4067
	ThinkPlus Priority 4, 3yr, TD-3yr	45K4068
	ThinkPlus Priority Support w/HDDR, 3yr, TD-3yr	45K5447
	ThinkPlus Priority 4 w HDDR, 3yr, TD-3yr	45K5448
	ThinkPlus Productivity, 3yr, TD-3yr	45K4090
All Systems	Online Training, Understanding Lenovo Servers	45K4080
	Online Training, Understanding Systems Management	45K4081
	Installation, ThinkServer HW Only	45K4082

SERVICES

	RACK SERVICE DESCRIPTION	P/N
R Series (Single Socket) with 1yr warranty	On-site Service, 9x5 Next Business Day, 3yr, RS-1yr	45K4069
	On-site Service, 9x5 4hr Response, 3yr, RS-1yr	45K4070
	ThinkPlus Priority Support, 3yr, RS-1yr	45K4071
	ThinkPlus Priority 4, 3yr, RS-1yr	45K4072
	ThinkPlus Priority Support w/HDDR, 3yr, RS-1yr	45K5449
	ThinkPlus Priority 4 w/HDDR, 3yr, RS-1yr	45K5450
	ThinkPlus Productivity, 3yr, RS-1yr	45K4092
R Series (Single Socket) with 3yr warranty	On-site Service, 9x5 4hr Response, 3yr, RS-3yr	45K4073
	ThinkPlus Priority Support, 3yr, RS-3yr	45K4074
	ThinkPlus Priority 4, 3yr, RS-3yr	45K4075
	ThinkPlus Priority Support w/HDDR, 3yr, RS-3yr	45K5451
	ThinkPlus Priority 4 w/HDDR, 3yr, RS-3yr	45K5452
	ThinkPlus Productivity, 3yr, RS-3yr	45K4094
R Series (Dual Socket) with 1yr warranty	On-site Service, 9x5 Next Business Day, 3yr, RD-1yr	45K5305
	On-site Service, 9x5 4hr Response, 3yr, RD-1yr	45K5306
	ThinkPlus Priority Support, 3yr, RD-1yr	45K5307
	ThinkPlus Priority 4, 3yr, RD-1yr	45K5308
	ThinkPlus Priority Support w/HDDR, 3yr, RD-1yr	45K5453
	ThinkPlus Priority 4 w/HDDR, 3yr, RD-1yr	45K5454
	ThinkPlus Productivity, 3yr, RD-1yr	45K5309
R Series (Dual Socket) with 3yr warranty	On-site Service, 9x5 4hr Response, 3yr, RD-3yr	45K4076
	ThinkPlus Priority Support, 3yr, RD-3yr	45K4077
	ThinkPlus Priority 4, 3yr, RD-3yr	45K4078
	ThinkPlus Priority Support w/HDDR, 3yr, RD-3yr	45K5455
	ThinkPlus Priority 4 w/HDDR, 3yr, RD-3yr	45K5456
	ThinkPlus Productivity, 3yr, RD-3yr	45K4096
All Systems	Online Training, Understanding Lenovo Servers	45K4080
	Online Training, Understanding Systems Management	45K4081
	Installation, ThinkServer HW Only	45K4082

ThinkServer™

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